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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/723,436	11/25/2003	Kazuyoshi Oyama	492322014900	6236

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EXAMINER

NGUYEN, DONGHAID

ART UNIT PAPER NUMBER

3729

DATE MAILED: 02/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

②

Office Action Summary	Application No. 10/723,436	Applicant(s) OYAMA ET AL.	
	Examiner Donghai D. Nguyen	Art Unit 3729	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 December 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
 4a) Of the above claim(s) 1, 2 and 7-10 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 3-6 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>11/25/03</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Group II and Species IIA, Claims 3-6, in the reply filed on December 12, 2005 is acknowledged.

Specification

2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested: --METHOD FOR MOUNTING AN ELECTRICAL COMPONENT--.

3. The disclosure is objected to because of the following informalities: "nozzle 13" (page 5, line 12) should be: --nozzle 33--; "an e example" (page 10, line 23) should be: --an example--; and "correctedl" (page 11, line 26) should be: --corrected--.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

5. Claims 3-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

“changing an illuminating condition based on a decision by an operator monitoring the displayed imaged” (claim 3, lines 9-10) is not understood since there is not specific condition or criteria that decides the change of illumination condition.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 3-6 as best understood are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent 5,461,480 to Yamada et al.

Regarding claim 3, Yamada et al. disclose a method for mounting an electronic component, comprising: picking up the electronic component (P1) from a component feeding unit (25) by a suction nozzle (41); illuminating (by LEDs 52 and 64) the electronic component picked up by the suction nozzle; taking an image of the illuminated electronic component by a component recognition camera (48); displaying the image taken by the component recognition camera when the electronic component is recognized to be improper based on a recognition processing performed on the image taken by the component recognition camera; changing an illuminating condition (by moving the led 52 up or down see Figs. 4-6 and 9-10, see Col.6, lines 35-58); and mounting the electronic component on a print board (24) when the electronic component picked up by the suction nozzle is recognized to be proper based on another recognition processing performed under the changed illuminating condition.

Regarding claim 4, Yamada et al disclose the electronic component is an electronic component that is picked up first from the component feeding unit (25) when a series of mounting operations starts for a type of printed board.

Regarding claim 5, Yamada et al disclose the component feeding unit (25) comprises a plurality of units (26), and the electronic component (P1) is each of electronic components (P) that are picked up first from corresponding units when a series of mounting operations starts for a type of printed board.

Regarding claim 6, Yamada et al disclose the component feeding unit (25) comprises a plurality of units (26) that are disposed on corresponding feeder bases (See Figs. 1 and 2), and the electronic component (P1) is each of electronic components (P) that are picked up first from corresponding units that are disposed on a feeder base selected from the feeder bases when a series of mounting operations starts for a type of printed board.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art references cited for their teaching of mounting electrical component to the PCB using illuminating system.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donghai D. Nguyen whose telephone number is (571)-272-4566. The examiner can normally be reached on Monday-Friday (9:00-6:00).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter D. Vo can be reached on (571)-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DN
January 27, 2006


MINH TRINH
PRIMARY EXAMINER